



# AL-MUSTAQBAL UNIVERSITY

## College of Engineering and Technology Guide

**2025-2024**

نموذج رقم : MOB000000G01  
الأصدار (0/1) 2025/2





# Al-Mustaqbal University

## College of Engineering and Technology



### President Biography:



landscape.

Dr. Hassan Shaker Majdi is the President of Al-Mustaqbal University and holds a Ph.D. in Chemical Engineering. His research, focused on energy, heat and mass transfer, and energy-saving technologies, has earned him an H-index of 27 in Scopus with 2,685 citations. Dr. Majdi's innovative contributions to energy efficiency have resulted in over 25 local patents and 50 prestigious awards. He is also ranked among the top 2% of highly cited scientists globally, according to Stanford University, USA. His leadership at the university emphasizes sustainability, innovation, and renewable energy research, playing a key role in Iraq's evolving

### Dean's Biography:



Dr. Azher M. Abed is the Dean of the College of Engineering and Technology at Al-Mustaqbal University and the Editor of the Al-Mustaqbal Journal of Sustainability in Engineering Science. He holds a Ph.D. in Renewable Energy from the Solar Energy Research Institute (SERI) at the National University of Malaysia. With over 12 years of experience in heat transfer and solar energy, Dr. Abed has published more than 180 research papers in prestigious journals and conferences. His research has earned him an H-index of 31 in Scopus, with 3,846 citations. The World Society of Sustainable Energy Technologies (WSSET) recognized his innovative work in energy efficiency, particularly in absorption cooling systems, and he holds a patent for a solar-assisted cooling system. In addition to over 10 local patents and 25 awards, Dr. Abed is ranked among the top 2% of highly cited scientists in the world, according to Stanford University, USA.



# Al-Mustaqbal University

## College of Engineering and Technology



### Table of Contents

<b>President Biography:</b>	2
<b>Dean's Biography:</b>	2
<b>Introduction</b>	4
<b>Our mission:</b>	6
<b>Our Goals:</b>	6
<b>Our Priorities</b>	7
<b>Our Students'</b>	9
<b>Academic Departments:</b>	10
<b>Academic Structure</b>	11
<b>Status:</b>	13
<b>Accrediations</b>	13
<b>Yearly Tuition Fees :</b>	13
<b>Size and Profile :</b>	13
<b>Number of students by departments and academic stages for the academic year 2023/2024:</b>	14
<b>Number of graduates for (2024-2023) :</b>	15
<b>Facilities and Services:</b>	16
<b>Laboratories :</b>	17
<b>Students Activities:</b>	18
<b>Social Activities:</b>	20
<b>International and local Relations:</b>	21





# Al-Mustaqbal University

## College of Engineering and Technology

Local Relations: .....	21
International Relations: .....	22
World Rankings: .....	23
Top Universities for climate action 2024 : .....	25
University Impact Rankings for 2024 : .....	26
University Impact Rankings for UN SDG 7& 6: .....	27
Local ranking:.....	28
Iraqi National Ranking:.....	30
Coneference Events:.....	34
3- The Third Al-Mustaqbal Engineering Forum for Graduation Projects 2024 .....	36
4- Al-Mustaqbal Week for AI Applications: .....	37
5- AL-Mustaqbal Forum for Sustainable Cities:.....	38
Our Sustainability Journey : .....	39
Our Strategy For Energy Transition:.....	40
Projects and Applications of Renewable Energy by College of engineering and technology : .....	41
Digital Transformation At College of Engineering And Technology:.....	44
Al-Mustaqbal Center for Energy Research: .....	45
National Institutional Accreditation:.....	46



# Al-Mustaqbal University

## College of Engineering and Technology



### Introduction

Al-Mustaqbal University is a private university.

Established in 2010 at Babil province, a well-known historical ancient city, which is located a 100-km to the south of the capital Baghdad. It was recognized according to the Iraqi Private Colleges and Universities Amended Law No. (13) on 1996 and acknowledged by the Iraqi Ministry of Higher Education and Scientific Research. The College of Engineering and Technology was established in April 2023 under the Ministerial Order No. T H 51391 dated 16/4/2023, after merging the newly established engineering departments and engineering technologies departments at Al Mustaqbal University. Its departments are operated by locally recruited academics, with extensive teaching, business and industry experience. They bring to the classroom a wealth of knowledge gained from research and professional practice in their respective fields, providing students with a stimulating, multi-dimensional academic environment.





# Al-Mustaqbal University

## College of Engineering and Technology



### Our mission:

- **Supporting aspiration**
- **Creating opportunities**
- **Delivering impact**

### Our Goals:

#### Inclusivity

The College of Engineering and Technology embraces and champions diversity and inclusivity, recognizing that a wide range of characteristics contributes to a richer tapestry of ideas and experiences. This commitment fosters a community where respect and fairness prevail, ensuring that every individual is valued and empowered to reach their full potential

#### Sustainability

The College is focused on achieving net-zero carbon emissions by the end of this decade. We are committed to involving our university community in collaborative efforts toward shared goals and collective action, with the aim of becoming a sustainable institution that positively affects both the environment and society.

#### goals

#### Aspiration

Our strategy articulates our vision for the future of the College, empowering us to achieve the aspirations of our staff, students, and stakeholders. We are committed to striving for excellence in all our endeavors

#### Trust

Trust is a fundamental principle guiding our collaboration. We are dedicated to building relationships that foster trust through respect, reliability, transparency, and a shared mission. Together, we will support aspirations, create opportunities, and deliver meaningful impact.



# Al-Mustaqbal University

## College of Engineering and Technology



### Our Priorities

Our priorities are founded on a commitment to excellence, innovation, and collaboration. They are designed to align with our vision, support our mission, and address the needs of our staff, students, and stakeholders. Supporting aspiration, creating opportunities, delivering impact.





# Al-Mustaqbal University

## College of Engineering and Technology



### Our Staff

Our staff are our most valuable asset. We aim for our colleagues to feel proud to be part of Al-Mustaqbal University, confident that their contributions are deeply valued. We are committed to recognizing excellence and success while offering numerous opportunities for professional growth.



By 2030

How?

Fostering a culture of excellence in our work

1. We strive to cultivate a culture of excellence in all our endeavors. This commitment inspires us to continually improve, innovate, and achieve exceptional outcomes, ensuring we uphold the highest standards in everything we do.
2. Develop our People Strategy, outlining our plans and ambitions for attracting, developing, engaging and retaining our staff.
3. Improve the staff life cycle from application and onboarding, through career progression.
4. Improve staff development, recognising varied trajectories through which they may progress their career.

Building an Inclusive Work Environment: The University's First Program for Equality, Energy Transformation, and Inclusion Strategy

We are dedicated to recognizing and valuing the diversity of our staff, while embracing the ongoing energy transformation within our institution. By understanding the unique circumstances and needs of our colleagues, we continuously refine our strategies. Our goal is to provide effective support for everyone, fostering an inclusive environment that benefits all members of our University community.



### Our Students' Experience



#### BY 2030, WE WILL

#### HOW

Developing Dialogue and Co-Creation with Students

We are committed to fostering an open dialogue and collaborative co-creation with our students. By actively involving them in decision-making processes and seeking their input, we aim to create an enriching educational experience. This partnership will enhance our programs and initiatives, ensuring they align with students' needs and aspirations.

Build an inclusive environment and sense of belonging

1. Optimise the enrolment and orientation processes to be inclusive of and engaging to all students.
2. Collaborating with Local Stakeholders for a Student-Friendly College .
3. Make the digital experience equivalent to the onsite experience for learning and community.
4. Construct modes of attendance and personalised timetables that meet, as far as possible, the diversity of our students' needs.



# Al-Mustaqbal University

## College of Engineering and Technology



### Academic Departments:

College of Engineering and Technologies currently consists of the following 10 academic departments in different disciplines.



The Computer Techniques Engineering Department

Establishment Year : **2010**  
No. of Enrollment Students: **783**



The Building and Construction Techniques Engineering Department Technologies

Establishment Year : **2012**  
No. of Enrollment Students: **453**



The Biomedical Engineering Department

Establishment Year : **2016**  
No. of Enrollment Students: **423**



The Chemical Engineering and Petroleum Industries Department

Establishment Year : **2017**  
No. of Enrollment Students: **445**



The Medical Instrumentation Techniques Engineering Department

Establishment Year : **2020**  
No. of Enrollment Students: **1738**



The Prosthetics and Orthotics Engineering Department

Establishment Year : **2023**  
No. of Enrollment Students: **39**



The Electrical Techniques Engineering Department

Establishment Year : **2023**  
No. of Enrollment Students: **116**



Mechanical power Techniques Engineering Department

Establishment Year : **2023**  
No. of Enrollment Students: **493**



The Communications Technology Engineering Department

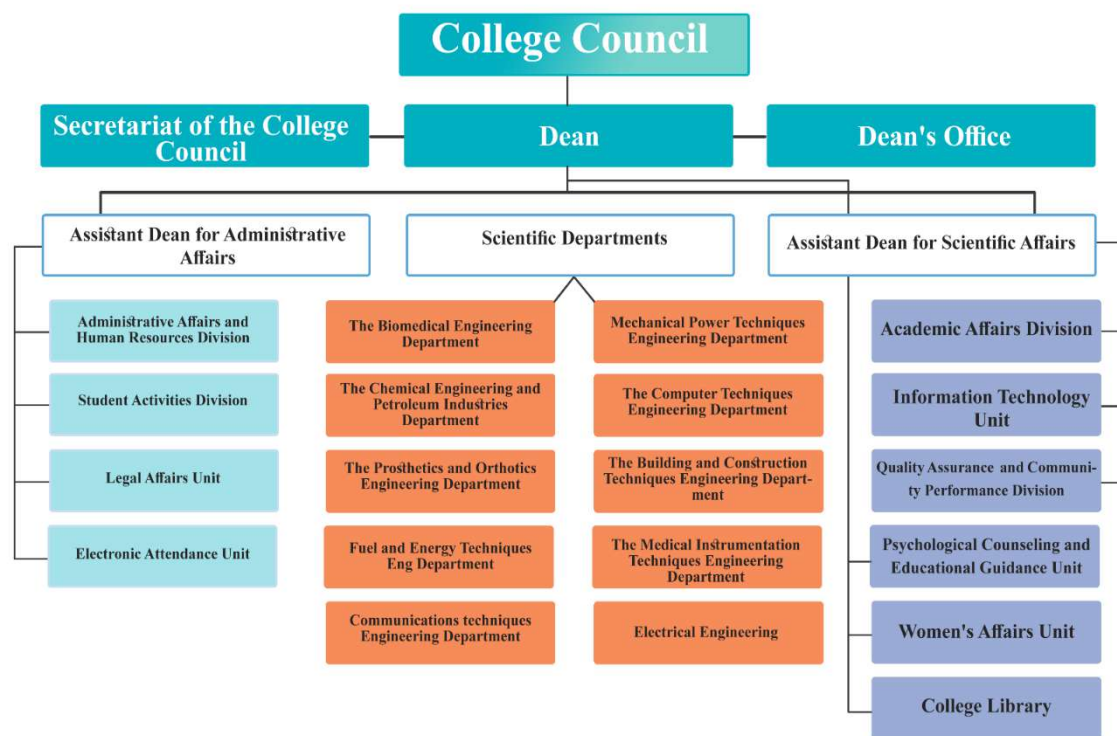
Establishment Year : **2024**  
No. of Enrollment Students:



# Al-Mustaqbal University

## College of Engineering and Technology

### Academic Structure:



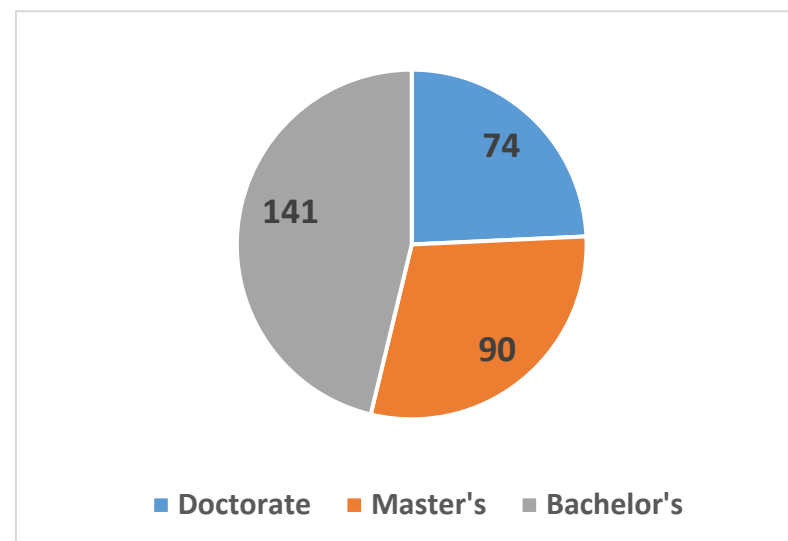


# Al-Mustaqbal University

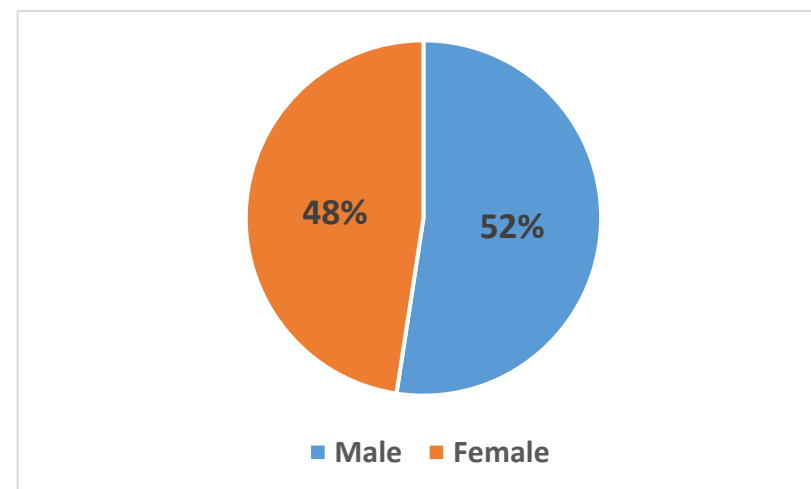
## College of Engineering and Technology



### Faculty Members According To Their Degree:



### Faculty Members According Gender:







# Al-Mustaqbal University

## College of Engineering and Technology



**Status:** Private

**Accrediations:** Ministry of Higher Education and Scientific Research, Iraq

**Yearly Tuition Fees :**

Program	Fees ( US Dollars )
Engineering and Technology	1500-2000

**Size and Profile :**

Students Enrollment	800-1000 Morning Studies	300 -750 Evening Studies
Academic Calender	Yearly	
Academic Staff	200-300	



# Al-Mustaqbal University

## College of Engineering and Technology



### Number of students by departments and academic stages for the academic year 2023/2024:

Department		Number of students by stage				
No.		First	Second	Third	fourth	Fifth
1	Mechanical Power Techniques Engineering Department	123	120	153	246	-
2	The Computer Techniques Engineering Department	271	216	139	247	-
3	The Building and Construction Techniques Engineering Department	172	85	112	147	-
4	The Chemical Engineering and Petroleum Industries Department	221	55	93	96	-
5	The Biomedical Engineering Department	238	46	41	109	104
6	The Electrical Techniques Engineering Department	120	-	-	-	-
7	The Prosthetics and Orthotics Engineering Department	39	-	-	-	-
9	The Medical Instrumentation Techniques Engineering Department	602	571	554	438	-
10	Fuel and Energy Techniques Engineering Department	49	-	-	-	-
	<b>Total</b>	<b>1663</b>	<b>973</b>	<b>939</b>	<b>1037</b>	<b>104</b>



# Al-Mustaqbal University

## College of Engineering and Technology

### Number of graduates for (2024-2023) :



The Computer Techniques  
Engineering Department

241



The Building and Construc-  
tion Techniques Engineering  
Department Technologies

141



The Biomedical Engineering  
Department

96



The Chemical Engineering  
and Petroleum Industries  
Department

94



The Medical Instrumenta-  
tion Techniques Engineer-  
ing Department

432



Mechanical power Tech-  
niques Engineering  
Department

241



# Al-Mustaqbal University

## College of Engineering and Technology



### Facilities and Services:







# Al-Mustaqbal University

## College of Engineering and Technology



### Laboratories :



### Students Activities:



**The Third Graduation Projects Forum** is an academic event typically held to showcase and discuss outstanding graduation projects from students across various disciplines.



**International Day of Women and Girls in ICT.** We have celebrated Iraqi women who have harnessed technology to explore their full potential





# Al-Mustaqbal University

## College of Engineering and Technology



**Ceativity and innovations award for student projects in the filed of sustainblity**



**Summer training for our stutent**



# Al-Mustaqbal University

## College of Engineering and Technology



### Social Activities:







# Al-Mustaqbal University

## College of Engineering and Technology



### International and local Relations:

College of Engineering and Technologies established comprehensive scientific connections with many prestigious universities around the world. The ultimate aim of this collaboration is to share knowledge and exchange expertise in order to improve the quality of education at our college. Currently, the college have a scientific agreement with the following universities:

### Local Relations:



University of Kufa -  
Materials Engineering



University of Babylon –  
materials engineering



Ministry of Higher  
Education and Scientific



Wasit University - College of  
Information Engineering



University of Information  
Technology and Communications



University of Technology -  
Baghdad



# Al-Mustaqbal University

## College of Engineering and Technology



### International Relations:



UMPSA University



USM University



UTP University



The Energy University

UNITEN University



Shahid Chamran University



Ilam University



Urmia University



جامعة IUST



# Al-Mustaqbal University

## College of Engineering and Technology



### World Rankings:

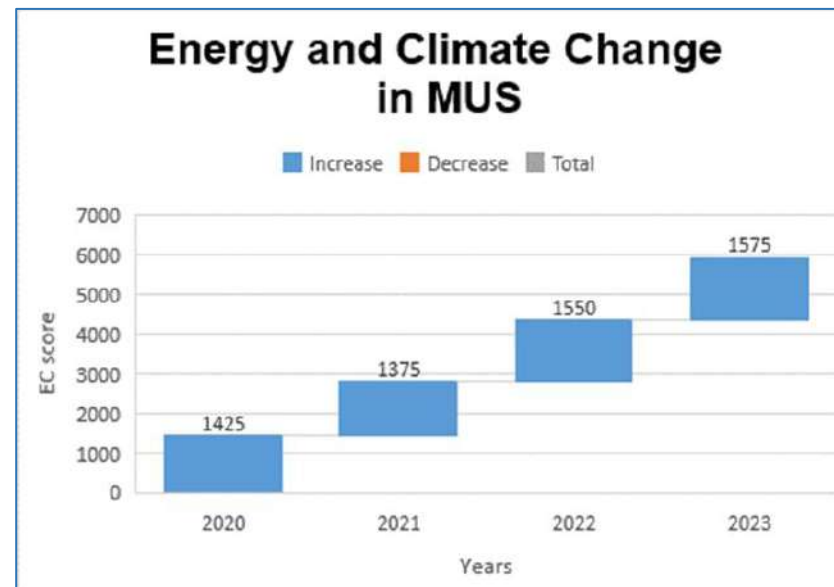
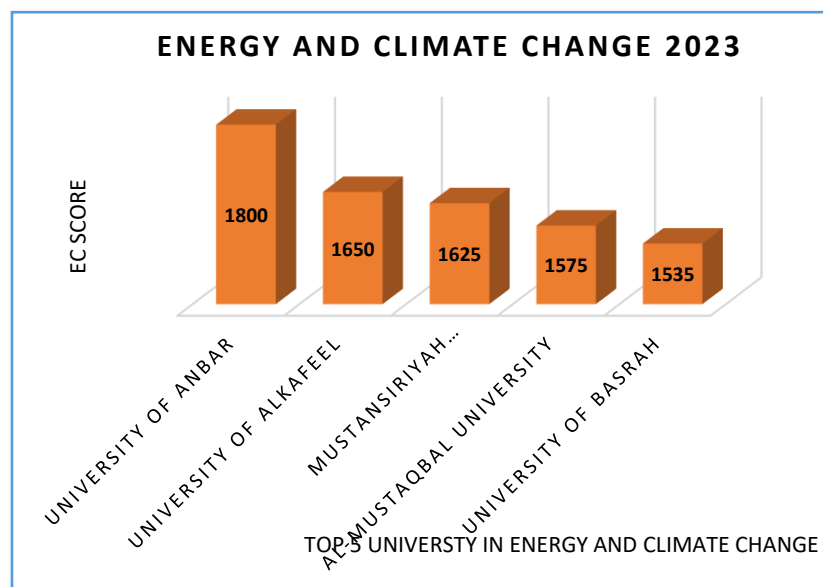
The College has been ranked in several subjects in the SCImago Institutions Rankings (SIR) 2024, a testament to its research productivity, innovation, and societal impact. SCImago evaluates institutions based on a combination of research performance, innovation output, and societal contributions, placing the College among leading institutions globally. This achievement underscores the College's dedication to advancing knowledge and addressing real-world challenges through impactful research and academic programs.



Area	World	Middle East	ARAB COUNTRIES	Iraq
Agricultural and Biological Sciences				
Earth and Planetary Sciences	125 <sup>th</sup>	4 <sup>th</sup>	3 <sup>rd</sup>	1 <sup>st</sup>
Energy	2840 <sup>th</sup>	253 <sup>rd</sup>	149 <sup>th</sup>	11 <sup>th</sup>
Engineering	+ 3540 <sup>th</sup>	290 <sup>th</sup>	162 <sup>nd</sup>	20 <sup>th</sup>
Environmental Science	2771 <sup>st</sup>	157 <sup>th</sup>	76 <sup>th</sup>	5 <sup>th</sup>



The College has contributed to the **UI GreenMetric World University Rankings** in different categories, including energy-efficient appliances usage, renewable energy usage policy, total electricity use, energy conservation programs, green building, climate change adaptation and mitigation programs, and greenhouse gas emission reductions policy. Moreover, it encompasses water and waste treatment as well as recycling activities.







# Al-Mustaqbal University

## College of Engineering and Technology



### Top Universities for climate action 2024 :

As part of the 2024 Impact Rankings, Times Higher Education has produced a ranking focusing on how universities are contributing to climate action. Some of the measures taken into account for the ranking are low-carbon energy use, a commitment to carbon-neutrality and working with local or national governments to address climate change.

The top universities for climate action 2024: top 100		
Climate action rank 2024	University	Country/region
1	University of Tasmania	Australia
2	UNSW Sydney	Australia
3	Simon Fraser University	Canada
82	University of Alberta	Canada
83	Tecnológico de Costa Rica	Costa Rica
84	Pontifical Catholic University of Peru	Peru
85	Universiti Sains Malaysia	Malaysia
=86	Al-Mustaqbal University	Iraq
=86	Indiana University Bloomington	United States
=86	University of Florence	Italy



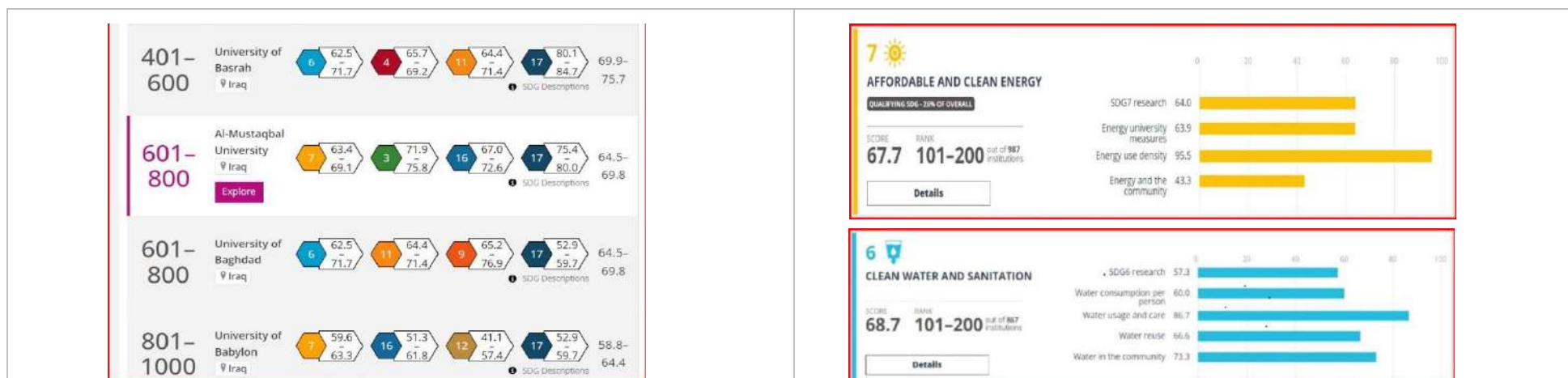
# Al-Mustaqbal University

## College of Engineering and Technology



### University Impact Rankings for 2024 :

Al-Mustaqbal University holds the top position among private universities in the **THE Impact Rankings**. The College of Engineering and Technology is responsible for **SDG 7** (Affordable and Clean Energy) and **SDG 6** (Clean Water and Sanitation), both of which have achieved the highest scores among the university's SDG contributions.





# Al-Mustaqbal University

## College of Engineering and Technology



### University Impact Rankings for UN SDG 7& 6:

Affordable and clean energy ( SDG 7 )			
Year	Iraq Rank	Rank	Overall
2021	8	301-400	47.6-56.5
2022	6	301-400	49.6-57.2
2023	1	101-200	53.9-59.6
2024	1	101-200	64.5-69.8



Clean Water And Sanitation ( SDG 6 )			
Year	Iraq Rank	Rank	Overall
2021	2	201-300	47.6-56.5
2022	3	201-300	50.3-57.2
2023	4	301-400	53.9-59.6
2024	1	101-200	64.5-69.8





# Al-Mustaqbal University

## College of Engineering and Technology



### Local ranking:

The engineering departments of the college have achieved advanced rankings in the National Ranking of Iraqi Universities, organized by the Iraqi Ministry of Higher Education. This accomplishment reflects the departments' dedication to academic excellence, quality education, and impactful research, solidifying their position among the top engineering programs in the country.

**THE IRAQI CLASSIFICATION FOR THE COLLEGE OF ENGINEERING AND TECHNOLOGY 2023\2022**

NO.	DEPARTMENT	THE RANKING OF PRIVATE COLLEGES	THE RANKING OF PRIVATE AND PUBLIC COLLEGES
1	The Biomedical Engineering Department	First	Second
2	The Chemical Engineering and Petroleum Industries Department	First	Fifth
3	The Building and Construction Techniques Engineering Department	First	First
4	The Computer Techniques Engineering Department	First	First
5	Mechanical Power Techniques Engineering Department	Third	Third





# Al-Mustaqbal University

## College of Engineering and Technology



### THE IRAQI CLASSIFICATION FOR THE COLLEGE OF ENGINEERING AND TECHNOLOGY 2024\2023

NO.	DEPARTMENT	THE RANKING OF PRIVATE COLLEGES	THE RANKING OF PRIVATE AND PUBLIC COLLEGES
1	The Biomedical Engineering Department	First	First
2	The Chemical Engineering and Petroleum Industries Department	First	Sixth
3	The Building and Construction Techniques Engineering Department	First	Third
4	The Computer Techniques Engineering Department	Second	Third
5	Mechanical Power Techniques Engineering Department	First	First



# Al-Mustaqbal University

## College of Engineering and Technology



### Iraqi National Ranking:

The Ministry of Higher Education and Scientific Research, through the Supervision and Scientific Evaluation Authority, has announced the results of the Iraqi National University Ranking. Al-Mustaqbal University has achieved first place among private universities and colleges, reaffirming its status as the top university in Iraq. Additionally, the College of Engineering ranked first among the colleges in the classification of academic departments.





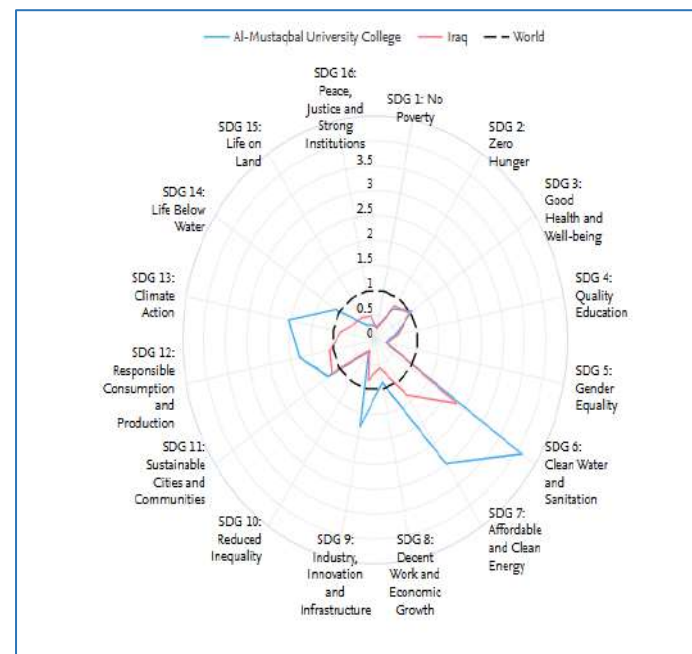
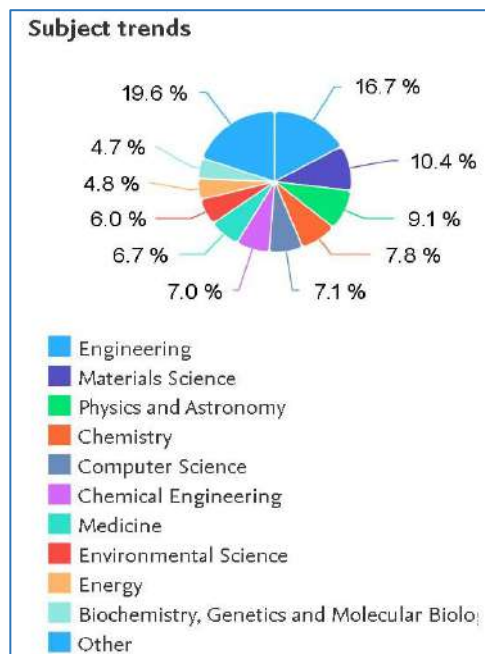
# Al-Mustaqbal University

## College of Engineering and Technology



### Excellence in scientific research and innovation:

The college hosted and contributed in many conferences. Further, the final year students are actively involved in research project, performing hands-on research under the supervision of the academic staff. Also, the academic staff are encourage to publish their research outcomes in indexed journals and proceedings as well as present it at national and international conferences. In addition, all departments conduct a series of seminars according to their specialization under the supervision of qualified researchers to share and discuss a new research ideas.





# Al-Mustaqbal University

## College of Engineering and Technology



## Al-Mustaqbal University

### College of Engineering and Technology

Researchers from College of Engineering and Technology  
appear among the top 2% of the most cited scholars worldwide  
from Stanford University, USA

Asst. Prof. Dr. Azhar Mohsen Abd

- 1- H-index: 29
- 2- Publications: 236
- 3- Citation: 3137
- 4- Rank: 2nd



Prof. Dr. Hassan ShakerMajdi

- 1- H-index: 25
- 2- Publications: 265
- 3- Citation: 2297
- 4- Rank: 4th



Prof. Dr. Tareq Jawad Kadhim

- 1- H-index: 34
- 2- Publications: 104
- 3- Citation: 3403
- 4- Rank: 1st



Asst. Prof. Dr. Tayssi Sameer

- 1- H-index: 27
- 2- Publications: 70
- 3- Citation: 2706
- 4- Rank: 5th



- 1- H-index: 34
- 2- Publications: 104
- 3- Citation: 3403
- 4- Rank: 1st

Prof. Dr. Tareq Jawad Kadhim



- 1- H-index: 27
- 2- Publications: 70
- 3- Citation: 2706
- 4- Rank: 5th

Asst. Prof. Dr. Tayssi Sameer

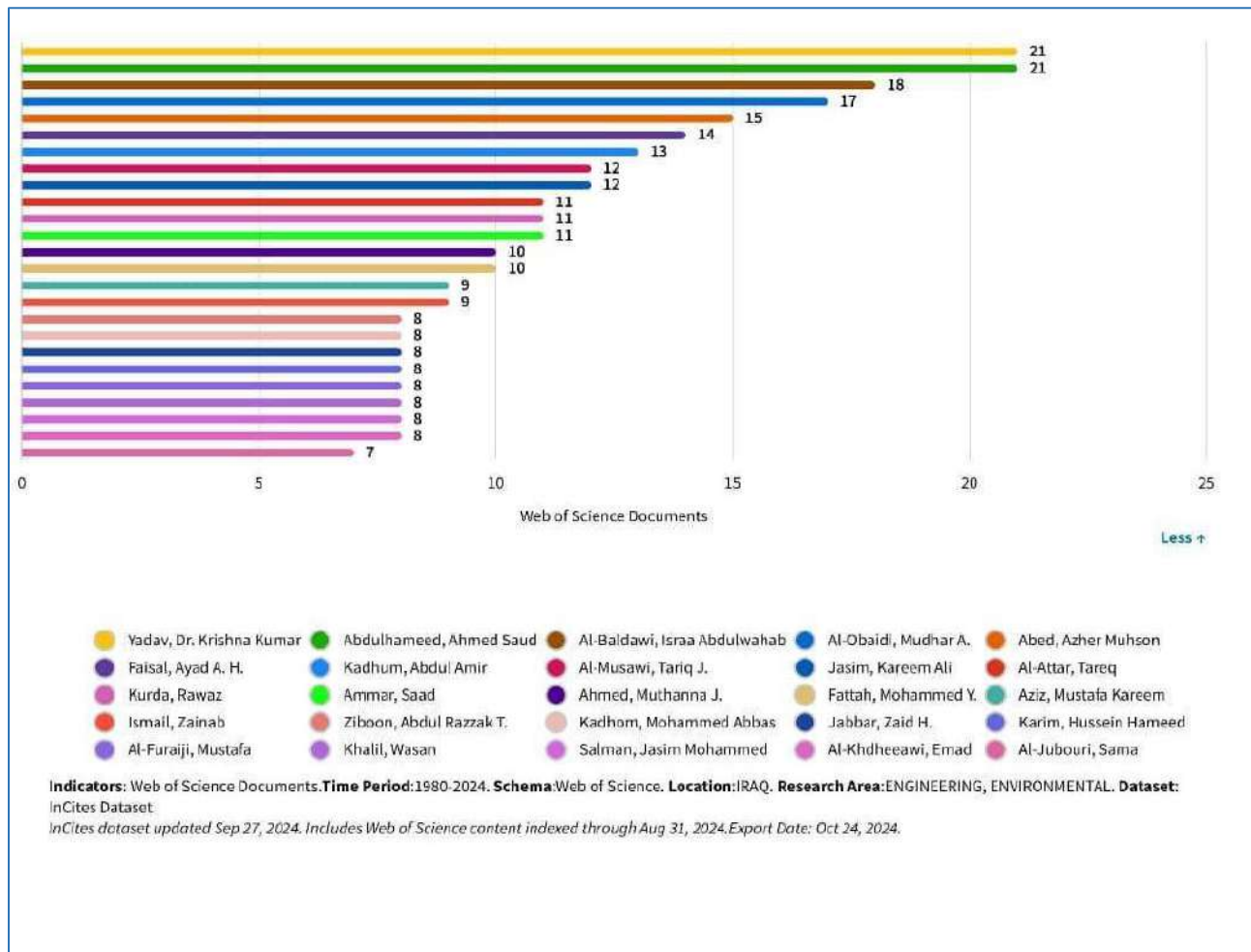






# Al-Mustaqbal University

## College of Engineering and Technology



**Indicators:** Web of Science Documents. Time Period: 1980-2024. Schema: Web of Science. Location: IRAQ. Research Area: ENGINEERING, ENVIRONMENTAL. Dataset:

InCites Dataset

InCites dataset updated Sep 27, 2024. Includes Web of Science content indexed through Aug 31, 2024. Export Date: Oct 24, 2024.



# Al-Mustaqbal University

## College of Engineering and Technology



### Conference Events:

**1- The First International Conference on the Future Sustainable Energy (ICFSE 2023).**

**2- The Second International Conference on the Future Sustainable Energy (ICFSE 2024).**

The aim of The Second International Conference on The Future Sustainable Energy is to create a platform for researchers to discuss efficient, coherent, and coordinated ways of developing new and renewable energy resource of the region and providing access to all and to capture the substantial role that clean energy technology plays in addressing many challenges. The aim of conference is to build a coherent sustainable network of relationships among budding researchers, innovator, industry professionals and the academics. The book contains articles related to the conference topics on the following major topics related to;

Applications of Nanotechnology and Innovative Materials

Energy Conversion and Management

Latest Research in Applied Mechanics

Role of Energy in Sustainable Development

Green House, Buildings Construction and Sustainable



# Al-Mustaqbal University

## College of Engineering and Technology



# ICFSE 2024







# Al-Mustaqbal University

## College of Engineering and Technology



### 3- The Third Al-Mustaqbal Engineering Forum for Graduation Projects 2024

The Third Forum for Graduation Projects of Final Year Students which has been holding on 30/4/2024 at AL Mustaqbal University between College of engineering and technologies, Department of Air Conditioning and Refrigeration Techniques Engineering and Mechanical Engineering at the University of Babylon is an event dedicated to showcasing and discussing the graduation projects presented by students at the end of their academic journey. The aim of this forum is to highlight the students' creativity and innovative technical solutions to practical challenges in the fields of air conditioning, refrigeration, and mechanical engineering.





# Al-Mustaqbal University

## College of Engineering and Technology



### 4- Al-Mustaqbal Week for AI Applications:

The Artificial Intelligence Week kicked off at Almustqbal University under the patronage of Professor Dr. Hassan Shaker Magdy, the University President, and the supervision of Associate Professor Dr. Azhar Mohsin Abdul, Dean of the Faculty of Engineering and Engineering Technologies.

The first day commenced with an opening speech by the Dean of the Faculty of Engineering and Engineering Technologies, who emphasized the college's efforts in integrating cutting-edge artificial intelligence applications into curriculum development, scientific research, and graduation projects. This was followed by a series of interactive sessions that explored the latest advancements in AI across diverse fields. The event also featured participation from representatives of government and

official entities, both from within and outside Babil Governorate.







# Al-Mustaqbal University

## College of Engineering and Technology



### 5- AL-Mustaqbal Forum for Sustainable Cities :

"Under the slogan 'Youth Leadership for Climate and Local Action in Sustainable Cities,' the Department of Building and Construction Engineering organized the third forum for sustainable cities on Wednesday morning, November 13, 2024, at Al-Mustaqbal University. The forum was sponsored by the esteemed President of the University, Prof. Dr. Hassan Shaker Majdi, and supervised by the Dean of the Faculty of Engineering and Engineering Technologies, Assoc. Prof. Azhar Mohsen Abdul, and the Head of the Department of Building and Construction Engineering, Assoc. Prof. Mayada Wahid Falah. The forum witnessed wide participation from students and individuals interested in climate action and environmental sustainability. It served as a platform to empower youth and engage them in leading climate action. The discussions centered on developing policies and initiatives that contribute to enhancing the sustainability of cities and communities and achieving the Sustainable Development Goals.





# Al-Mustaqbal University

## College of Engineering and Technology



### Our Sustainability Journey :

#### 2018

- Installation of the first 3 kW solar regulator

#### 2021

- The photovoltaic solar energy and wind power project was installed.
- The transition from R22 gas to R410 gas began, which has three times lower global warming potential for heating.
- The university achieved the highest ranking in the UI GreenMetric Index.

#### 2019

- Installation of the first 10 kW solar thermal system

#### 2022

- T- A 75 kW Agrivoltaic (APV) photovoltaic solar energy system was installed on the university rooftop to power LED lighting and lamps.
- - Existing buildings are being upgraded to achieve higher energy efficiency.
- The university achieved the highest ranking in the UI GreenMetric Index and the Times ranking.

#### 2024

- The university is ranked first among private universities in SDG 7 according to the Times ranking.
- It is recognized as one of the top universities for climate action in 2024.
- The university received prestigious awards for its energy projects.

#### 2020

- The capacity of photovoltaic solar energy was increased.
- 80% of our buildings began using LED lighting systems.
- A student volunteer team was established in the field of sustainability.
- The university achieved its first ranking in the UI GreenMetric Index.

#### 2023

- A 250 kW photovoltaic solar energy system was installed on the university rooftop.
- Al-Mustaqbal Energy Research Center was established.
- Al-Mustaqbal for Sustainability in Engineering Sciences was launched.
- The university ranked first among private universities in SDG 7 according to the Times ranking.





# Al-Mustaqbal University

## College of Engineering and Technology



### Our Strategy For Energy Transition:

Al- Mustaqbal University intends to realize further energy savings by paying close attention to energy management. All parts of the organization can assess their own energy consumption and realize their own energy-saving potential by means of, for example, insulation, LED lighting, and the deployment of sustainable technology. We have therefore established a strategy for our college along the pillars:

- Low- or zero-emission power generation:
- Reducing GHG footprint and energy consumption .





# Al-Mustaqbal University

## College of Engineering and Technology



## Projects and Applications of Renewable Energy by College of engineering and technology :

The main goal of using Solar energy as a generating source for refrigeration and air conditioning systems is to reduce electrical energy consumption by 40 to 50%, as air-conditioning systems are the largest energy consumer in industrial and commercial applications. Therefore, the most important benefits of solar cooling are to reduce energy consumption and reduce the percentage of greenhouse gases that are emitted from regular air conditioning systems that use unfriendly gases, which are a key factor in the occurrence of global warming. Many energy projects have received creativity and excellence awards.

Some of them are represented by:

- 1- Design solar water heaters.
- 2- Installation of solar panels at the roof of our bulding.
- 3- Participating in energy projects at scientific forum Solar collecetor traking system.

**A student energy team awarded for the best project from engineering union.**



# Al-Mustaqbal University

## College of Engineering and Technology



The table below shows the number of graduation projects for each department and classifies them according to the Sustainable Development Goals:

Department	Total number	Sustainable Development Goals
The Building and Construction Techniques Engineering Department	12	Sdg (9 ,11 ,12,6,13)
The Chemical Engineering and Petroleum Industries Department	24	Sdg(7,13,6,4,9,10,8)
The Computer Techniques Engineering Department	37	Sdg (3 ,9,4, 12 ,6,7,15)
Mechanical Power Techniques Engineering Department	11	Sdg (7,9,13,11,6,12)
The Biomedical Engineering Department	21	Sdg (9,3,4)
The Medical Instrumentation Techniques Engineering Department	80	Sdg (3,4)



# Al-Mustaqbal University

## College of Engineering and Technology



**Figure 1 Implemented of solar water heater**



**Solar collector tracking system**



**Fig : installed of solar panels at the roof of our bulding**



**Participating in energy projects at scientific forums**



**Student Energy Team**



**Awards for the best project from engineering union**

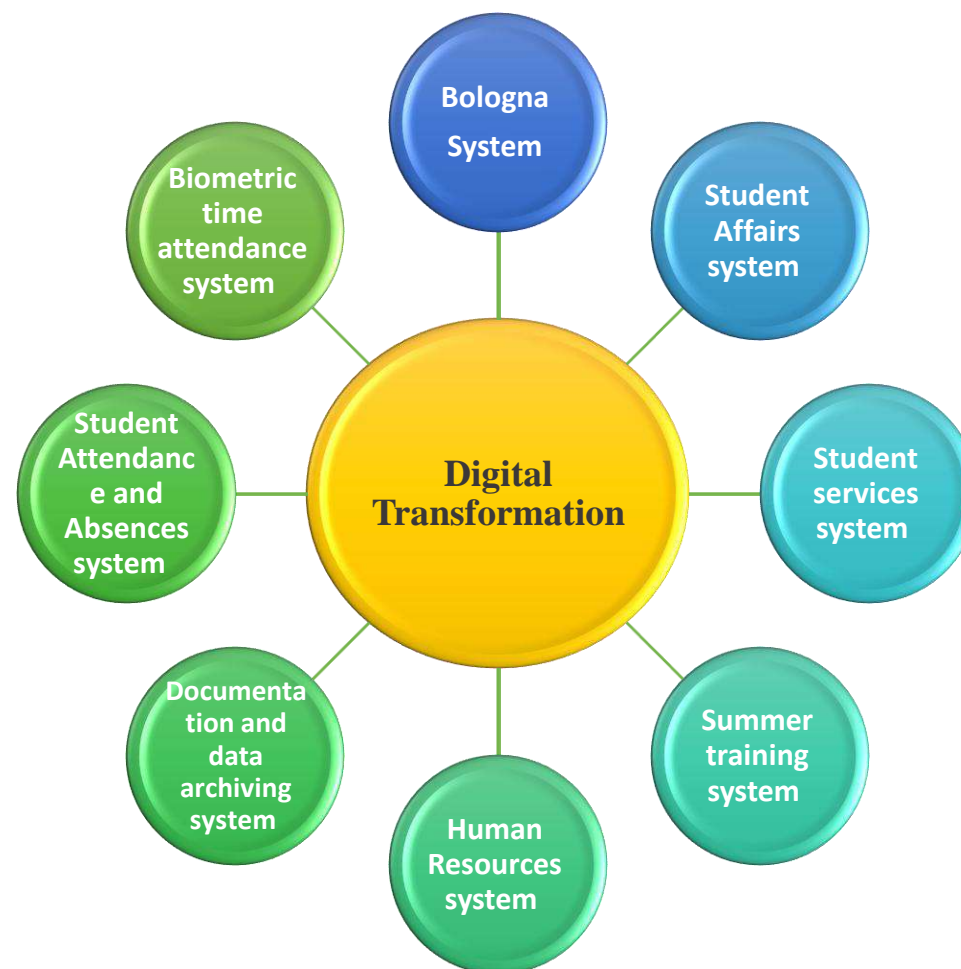




Al-Mustaqbal University

College of Engineering and Technology

## Digital Transformation At College of Engineering And Technology:





# Al-Mustaqbal University

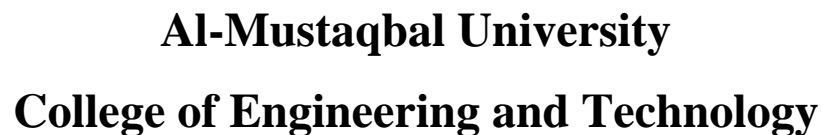
## College of Engineering and Technology



### Al-Mustaqbal Center for Energy Research:

It is a leading entity specializing in providing technical consultations and sustainable solutions in the field of energy, with a focus on renewable energy and energy efficiency. We strive to support both governmental and private institutions in Iraq to achieve the transition to a more sustainable energy environment, enhance reliance on clean energy, and promote energy conservation. The center was established by Ministerial Order No. (B T 8/543) on January 17, 2024





The university has been awarded national institutional accreditation following the decision by the Supervision and Scientific Evaluation Authority in the Ministry to grant AL-Mustaqbal University institutional accreditation. The decision was approved by His Excellency the Minister of Higher Education and Scientific Research, Dr. Naeem Al-Aboudi. With this achievement, AL-Mustaqbal University has become the first private university in Iraq to receive institutional accreditation, and one of the few universities overall, including public institutions, to attain this recognition.







# Al-Mustaqbal University

## College of Engineering and Technology



### Contact Us:

- Hilla- Babil Governorate / Iraq
- E-mail: [d-eng-mu@uomus.edu.iq](mailto:d-eng-mu@uomus.edu.iq)
- Mobile: 009647710626934



SCAN ME

You can visit the university's website through the QR Code.





**AL-MUSTAQBAL UNIVERSITY**

College of Engineering and  
Technology Guide

**2025-2024**